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DE DE

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Veröffentlicht

Mit internationalem Recherchenbericht.

(54) Title: ACCELEROMETER

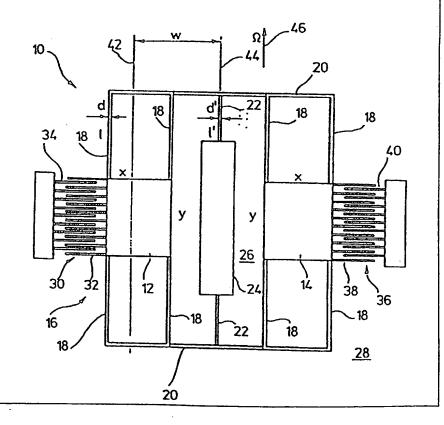
(54) Bezeichnung: BESCHLEUNIGUNGSSENSOR

(57) Abstract

The invention concerns an accelerometer, in particular a Coriolis rate-of-rotation sensor, with a mass suspended by springs from a support so that it is displaced under the action of an acceleration, plus processing circuits for determining the displacement of the mass caused by the acceleration, in particular a Coriolis acceleration. The invention calls for the mass (12, 14) to be suspended in such a way that displacement of the mass (12, 14) by interfering accelerations, in particular linear accelerations, acting on the mass is suppressed.

(57) Zusammenfassung

Die Erfindung betrifft einen Beschleunigungssensor, insbesondere Coriolis-Drehratensensor, mit einer federnd an einem Substrat (Basis) aufgehängten, aufgrund einer Beschleunigungseinwirkung auslenkbaren seismischen Masse, sowie Auswerternitteln zum Erfassen einer beschleunigungsbedingten Auslenkung der seismischen Masse, insbesondere zum Erfassen einer Coriolisbeschleunigung. Es ist vorgesehen, daß die seismische Masse (12. 14) derart aufgehängt ist, daß eine Auslenkung der seismischen Masse (12, 14) aufgrund von auf dieser wirkenden Störbeschleunigungen, insbesondere Linearbeschleunigungen, unterdrückbar ist.



		SIFICATION	OF S	UBJECT	MATTER
IP	C 6	G01C1	9/5	6	

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 6 GO1C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
*Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 11 September 1995	Date of mailing of the international search report 2 5. 09. 95
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Hunt, J

INTERNATIONAL SEARCH REPORT

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INTERPTIONAL SEARCH REPORT

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1	Intern	Application No
	PCT/D	E 95/00723

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US-A-5025346	18-06-91	NONE			

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Patentansprüche

- 1. Beschleunigungssensor, insbesonders Coriolis-Drehratensensor, mit einer federnd an einem Substrat (Basis) aufgehängten, aufgrund einer Beschleunigungseinwirkung auslenkbaren seismischen Masse, sowie Auswertemitteln zum Erfassen einer beschleunigungsbedingten Auslenkung der seismischen Masse, insbesondere zum Erfassen einer Coriolisbeschleunigung, dadurch gekennzeichnet, daß die seismische Masse (12, 14) derart aufgehängt ist, daß eine Auslenkung der seismischen Masse (12, 14) aufgrund von auf dieser wirkenden Störbeschleunigungen, insbesondere Linearbeschleunigungen, unterdrückbar ist.
- 2. Beschleunigungssensor nach Anspruch 1, dadurch gekennzeichnet, daß zwei mechanisch miteinander gekoppelte Schwingmassen (12, 14) eine Schwingstruktur (16) bilden, die durch einen elektromagnetischen oder einen elektrostatischen Kammantrieb (30) in

ACCELEROMETER

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Veröffentlichungsdatum:

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Erfinder:

KULCKE HANS-MARTIN (DE); GOETZ SIEGBERT (DE); LAERMER FRANZ (DE); OFFENBERG

MICHAEL (DE); FUNK KARSTEN (DE); SCHILP

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Anmelder:

BOSCH GMBH ROBERT (DE); KULCKE HANS MARTIN (DE); GOETZ SIEGBERT (DE); LAERMER FRANZ (DE); OFFENBERG MICHAEL (DE); FUNK

KARSTEN (DE); SCHILP ANDREA (DE)

Aktenzeichen:

(EPIDOS-INPADOC-normiert)

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(EPIDOS-INPADOC-normiert)

DE944420918 19940616; DE951000800 19950113

Klassifikationssymbol (IPC):

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Veröffentlichungsnummer:

DE19500800

Korrespondierende Patentschriften

Bibliographische Daten

The invention concerns an accelerometer, in particular a Coriolis rate-of-rotation sensor, with a mass suspended by springs from a support so that it is displaced under the action of an acceleration, plus processing circuits for determining the displacement of the mass caused by the acceleration, in particular a Coriolis acceleration. The invention calls for the mass (12, 14) to be suspended in such a way that displacement of the mass (12, 14) by interfering accelerations, in particular linear accelerations, acting on the mass is suppressed.





ACCELEROMETER

Titel:

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Veröffentlichungsdatum:

1997-04-02

Erfinder:

KULCKE HANS-MARTIN (DE); GOETZ SIEGBERT

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Anmelder:

BOSCH GMBH ROBERT (DE)

Aktenzeichen:

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 ${\bf Klassifikations symbol~(IPC):}$

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Veröffentlichungsnummer:

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- L1 ANSWER 1 OF 1 INPADOC COPYRIGHT 1999 EPO
- LEVEL 1
- AN 41156839 INPADOC
- TI ACCELEROMETER
- IN KULCKE, HANS-MARTIN; GOETZ, SIEGBERT; LAERMER, FRANZ; OFFENBERG, MICHAEL; FUNK, KARSTEN; SCHILP, ANDREA
- INS KULCKE HANS-MARTIN; GOETZ SIEGBERT; LAERMER FRANZ; OFFENBERG MICHAEL; FUNK KARSTEN; SCHILP ANDREA
- INA DE; DE; DE; DE; DE
- PA ROBERT BOSCH GMBH; KULCKE, HANS-MARTIN; GOETZ, SIEGBERT; LAERMER, FRANZ; OFFENBERG, MICHAEL; FUNK, KARSTEN; SCHILP, ANDREA
- PAS BOSCH GMBH ROBERT; KULCKE HANS MARTIN; GOETZ SIEGBERT; LAERMER FRANZ; OFFENBERG MICHAEL; FUNK KARSTEN; SCHILP ANDREA
- PAA DE; DE; DE; DE; DE; DE
- TL English; French; German
- LA German
- DT Patent
- PIT WOA1 PUBL.OF THE INT.APPL. WITH INT.SEARCH REPORT
- PI ***WO 9534798 A1 19951221***
- DS RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE W: JP US
- AI WO 1995-DE723 A 19950602 PRAI DE 1994-4420918 A 19940616
- DE 1995-19500800 A 19950113 ICM (6) G01C019-56
- ICM (6) G01C019-56 EPC G01C19/56F1

ANSWER 1 OF 1 INPADOC COPYRIGHT 1999 EPO

MEMBER 1 ______

LEVEL 1

L2

ΑN 41156839 INPADOC

ΤT ACCELEROMETER

IN KULCKE, HANS-MARTIN; GOETZ, SIEGBERT; LAERMER, FRANZ; OFFENBERG, MICHAEL; FUNK, KARSTEN; SCHILP, ANDREA

KULCKE HANS-MARTIN; GOETZ SIEGBERT; LAERMER FRANZ; OFFENBERG MICHAEL; INS FUNK KARSTEN; SCHILP ANDREA

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TLEnglish; French; German

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Patent DT

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W: JP US

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> WO 1995-DE723 A 19950602

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JP US

19951221 WOAL A1 + DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19951221 WOA1 + PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE

INTERNATIONAL SEARCH REPORT 19960229 WODFPE REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO

EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

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JP 96501450

19981204 WONENP NON-ENTRY INTO THE NATIONAL PHASE IN:

JP 96501450

19990305 WONENP NON-ENTRY INTO THE NATIONAL PHASE IN:

JP 96501450





MEMBER 2

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LEVEL 1
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AN 14522755 INPADOC

TΙ ACCELEROMETER

ΙN KULCKE, HANS-MARTIN; GOETZ, SIEGBERT; LAERMER, FRANZ; OFFENBERG, MICHAEL; FUNK, KARSTEN; SCHILP, ANDREA

KULCKE HANS-MARTIN; GOETZ SIEGBERT; LAERMER FRANZ; OFFENBERG MICHAEL; INS FUNK KARSTEN; SCHILP ANDREA

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PAA

TLEnglish; French; German

T.A German

DΤ Patent

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EP 765464 PΙ

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W 19950602 EP-APPLICATION

19950602 EPAE A

EP 1995-920749

A 19950602

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DE GB

19970402 EPA1 + PUBLICATION OF APPLICATION WITH SEARCH REPORT

+ REQUEST FOR EXAMINATION FILED 19970402 EP17P

970116

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MEMBER 3
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LEVEL 1
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AN 27911986 INPADOC

TI BESCHLEUNIGUNGSSENSOR

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PAA DE

DT Patent

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PI DE 19500800 A1 19951221 AI DE 1995-19500800 A 19950113 PRAI DE 1995-19500800 A 19950113 DE 1994-4420918 A1 19940616

OSDW 96-041173

ICM (6) G01P015-08

ICS (6) G01P015-10; (6) G01P009-04

ICA (6) G01H001-10

EPC G01C19/56F1

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19940616 DEAA A1 DOMESTIC PRIORITY

DE 1994-4420918 A1 19940616

19950113 DEAE A DOMESTIC APPLICATION (PATENT APPLICATION)

DE 1995-19500800 A 19950113

19951221 DEA1 + LAYING OPEN FOR PUBLIC INSPECTION

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